

Please type a plus sign (+) inside this box → ☒

PTO/SB/05 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. H0004345(4016)

First Inventor Wei Guo

Title High-Purity Nickel-Vanadium Sputtering...

Express Mail Label No.

U.S. PTO  
101720231



## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 24]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 3]
5. Oath or Declaration [Total Pages 3]
  - a. ☒ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 18 completed)
    - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - a. ☐ Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i. ☐ CD-ROM or CD-R (2 copies); or
    - ii. ☐ paper
  - c. ☐ Statements verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☐ Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No. \_\_\_\_\_ / \_\_\_\_\_

Prior application information:

Examiner \_\_\_\_\_

Group Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 19. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label



or ☐ Correspondence address below

Name

Address

City

State

Zip Code

Country

Telephone

Fax

Name (Print/Type)

David G. Latwesen, Ph.D

Registration No. (Attorney/Agent)

38,533

Signature

Date

November 24, 2002

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

H058-108 (DGL)

The PTO did not receive the following  
listed item(s) Post Card

16698 U.S. PTO  
712503

Approved for use through 09/30/2006 OMB 351-0032  
Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Project of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>FEE TRANSMITTAL</b>		<b>Complete If Known</b>	
<b>for FY 2000</b>		Application Number	Filed herewith
<small>Patent fees are subject to annual revision. Small Entity payments MUST be supported by a small entity statement. Otherwise large entity fees must be paid. See FORMS PUBLISHED BY See 37 C.F.R. §§ 1.27 and 1.28.</small>		Filing Date	
<b>TOTAL AMOUNT OF PAYMENT</b> 131,152.00		First Named Inventor	Wei Guo
		Examiner Name	
		Group / An Unit	
		Attorney Docket No.	H0004345(4016)

  

METHOD OF PAYMENT (check one)	FEE CALCULATION (continued)																																																																																																																																																																																																																																															
<p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to disburse indicated fees and credit any overpayments to:</p> <p>Deposit Account Number: <b>23-0925</b></p> <p>Deposit Account Name: <b>Wells St. John P.S.</b></p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17</p> <p>2. <input type="checkbox"/> Payment Enclosed:  <input type="checkbox"/> Check    <input type="checkbox"/> Money Order    <input type="checkbox"/> Other         </p>	<p><b>3. ADDITIONAL FEES</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Small Entity Fee Code</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>100</td><td>205</td><td>65</td><td>Surcharge - late filing fee or cash</td><td>0.00</td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td>0.00</td></tr> <tr><td>129</td><td>130</td><td>129</td><td>130</td><td>Non-English specification</td><td>0.00</td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for examination</td><td>0.00</td></tr> <tr><td>112</td><td>920</td><td>112</td><td>920</td><td>Requesting publication of OI prior to examination</td><td>0.00</td></tr> <tr><td>113</td><td>1,840</td><td>113</td><td>1,840</td><td>Requesting publication of AIR after Examiner action</td><td>0.00</td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td>0.00</td></tr> <tr><td>116</td><td>300</td><td>210</td><td>190</td><td>Extension for reply within second month</td><td>0.00</td></tr> <tr><td>117</td><td>570</td><td>217</td><td>435</td><td>Extension for reply within third month</td><td>0.00</td></tr> <tr><td>118</td><td>1,150</td><td>218</td><td>860</td><td>Extension for reply within fourth month</td><td>0.00</td></tr> <tr><td>128</td><td>1,850</td><td>228</td><td>925</td><td>Extension for reply within fifth month</td><td>0.00</td></tr> <tr><td>110</td><td>203</td><td>210</td><td>150</td><td>Notice of Appeal</td><td>0.00</td></tr> <tr><td>120</td><td>300</td><td>220</td><td>190</td><td>Filing a brief in support of an appeal</td><td>0.00</td></tr> <tr><td>121</td><td>285</td><td>221</td><td>130</td><td>Request for oral hearing</td><td>0.00</td></tr> <tr><td>123</td><td>1,510</td><td>123</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td>0.00</td></tr> <tr><td>140</td><td>110</td><td>240</td><td>65</td><td>Petition to revive - unintentional</td><td>0.00</td></tr> <tr><td>141</td><td>1,210</td><td>241</td><td>605</td><td>Petition to revive - unintentional</td><td>0.00</td></tr> <tr><td>142</td><td>1,210</td><td>242</td><td>605</td><td>Utility patent fee (or release)</td><td>0.00</td></tr> <tr><td>113</td><td>130</td><td>213</td><td>215</td><td>Design issue fee</td><td>0.00</td></tr> <tr><td>144</td><td>540</td><td>244</td><td>290</td><td>Plant issue fee</td><td>0.00</td></tr> <tr><td>122</td><td>110</td><td>222</td><td>150</td><td>Petitions to the Commissioner</td><td>0</td></tr> <tr><td>125</td><td>50</td><td>125</td><td>50</td><td>Revisions related to provisional applications</td><td>0.00</td></tr> <tr><td>125</td><td>240</td><td>125</td><td>240</td><td>Submission of Information Disclosure Sheet</td><td>0.00</td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td>40.00</td></tr> <tr><td>148</td><td>650</td><td>248</td><td>345</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td><td>0.00</td></tr> <tr><td>149</td><td>650</td><td>249</td><td>345</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td><td>0.00</td></tr> <tr><td colspan="4">Other fee (specify):</td><td>0.00</td></tr> <tr><td colspan="4">Other fee (specify):</td><td>0.00</td></tr> <tr> <td style="text-align: center;"><b>SUBTOTAL (1)</b></td> <td colspan="3"></td> <td style="text-align: center;"><b>(9) 770.00</b></td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">FEE CALCULATION</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;"><b>1. BASIC FILING FEE</b></td> </tr> <tr> <td>Large Entity Small Entity Fee Code (S) Code (S)</td> <td>Fee Description Fee Paid</td> </tr> <tr><td>101 600 201 345</td><td>Utility filing fee</td><td>770.00</td></tr> <tr><td>106 210 206 155</td><td>Design filing fee</td><td></td></tr> <tr><td>107 450 207 240</td><td>Plant filing fee</td><td></td></tr> <tr><td>108 600 208 345</td><td>Provisional filing fee</td><td></td></tr> <tr><td>114 150 214 75</td><td>Provisional filing fee</td><td></td></tr> <tr> <td colspan="2" style="text-align: center;"><b>SUBTOTAL (1)</b></td> <td style="text-align: center;"><b>(9) 770.00</b></td> </tr> <tr> <td colspan="2" style="text-align: center;"><b>2. EXTRA CLAIM FEES</b></td> </tr> <tr> <td>           Total Claims: <b>19</b>            Independent Claims: <b>1</b>            Multiple Dependent: <b>0</b> </td> <td>           Extra Claims Fee from below: <b>13</b>            Extra Claims Fee from above: <b>0</b>            Multiple Dependent Fee: <b>0</b> </td> </tr> <tr> <td colspan="2">           **For number previously paid, if greater: For Petitions, see below            Large Entity Small Entity Fee Code (S) Fee Code (S) Fee Description         </td> </tr> <tr><td>100 10 200 5</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>102 78 202 30</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>104 260 204 150</td><td>Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>109 14 209 35</td><td>Multiple independent claims over original patent</td><td></td></tr> <tr><td>110 10 210 5</td><td>Reissue claims in excess of 27 and over original patent</td><td></td></tr> <tr> <td colspan="2" style="text-align: center;"><b>SUBTOTAL (2)</b></td> <td style="text-align: center;"><b>(8) 342.00</b></td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">SUBMITTED BY</th> <th colspan="2" style="text-align: center;">Complete If Applicable</th> </tr> </thead> <tbody> <tr> <td>Name (Print/Type)</td> <td>David G. Latwesen, Ph.D.</td> <td>Registration No. (Attorney/Agent)</td> <td>38,533</td> </tr> <tr> <td>Signature</td> <td><i>[Signature]</i></td> <td>Telephone</td> <td>509-624-4276</td> </tr> <tr> <td></td> <td></td> <td>Date</td> <td>11/25/03</td> </tr> </tbody> </table>	Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	105	100	205	65	Surcharge - late filing fee or cash	0.00	127	50	227	25	Surcharge - late provisional filing fee or cover sheet	0.00	129	130	129	130	Non-English specification	0.00	147	2,520	147	2,520	For filing a request for examination	0.00	112	920	112	920	Requesting publication of OI prior to examination	0.00	113	1,840	113	1,840	Requesting publication of AIR after Examiner action	0.00	115	110	215	55	Extension for reply within first month	0.00	116	300	210	190	Extension for reply within second month	0.00	117	570	217	435	Extension for reply within third month	0.00	118	1,150	218	860	Extension for reply within fourth month	0.00	128	1,850	228	925	Extension for reply within fifth month	0.00	110	203	210	150	Notice of Appeal	0.00	120	300	220	190	Filing a brief in support of an appeal	0.00	121	285	221	130	Request for oral hearing	0.00	123	1,510	123	1,510	Petition to institute a public use proceeding	0.00	140	110	240	65	Petition to revive - unintentional	0.00	141	1,210	241	605	Petition to revive - unintentional	0.00	142	1,210	242	605	Utility patent fee (or release)	0.00	113	130	213	215	Design issue fee	0.00	144	540	244	290	Plant issue fee	0.00	122	110	222	150	Petitions to the Commissioner	0	125	50	125	50	Revisions related to provisional applications	0.00	125	240	125	240	Submission of Information Disclosure Sheet	0.00	581	40	581	40	Recording each patent assignment per property (times number of properties)	40.00	148	650	248	345	Filing a submission after final rejection (37 CFR § 1.129(a))	0.00	149	650	249	345	For each additional invention to be examined (37 CFR § 1.129(b))	0.00	Other fee (specify):				0.00	Other fee (specify):				0.00	<b>SUBTOTAL (1)</b>				<b>(9) 770.00</b>	FEE CALCULATION		<b>1. BASIC FILING FEE</b>		Large Entity Small Entity Fee Code (S) Code (S)	Fee Description Fee Paid	101 600 201 345	Utility filing fee	770.00	106 210 206 155	Design filing fee		107 450 207 240	Plant filing fee		108 600 208 345	Provisional filing fee		114 150 214 75	Provisional filing fee		<b>SUBTOTAL (1)</b>		<b>(9) 770.00</b>	<b>2. EXTRA CLAIM FEES</b>		Total Claims: <b>19</b> Independent Claims: <b>1</b> Multiple Dependent: <b>0</b>	Extra Claims Fee from below: <b>13</b> Extra Claims Fee from above: <b>0</b> Multiple Dependent Fee: <b>0</b>	**For number previously paid, if greater: For Petitions, see below Large Entity Small Entity Fee Code (S) Fee Code (S) Fee Description		100 10 200 5	Claims in excess of 20		102 78 202 30	Independent claims in excess of 3		104 260 204 150	Multiple dependent claim, if not paid		109 14 209 35	Multiple independent claims over original patent		110 10 210 5	Reissue claims in excess of 27 and over original patent		<b>SUBTOTAL (2)</b>		<b>(8) 342.00</b>	SUBMITTED BY		Complete If Applicable		Name (Print/Type)	David G. Latwesen, Ph.D.	Registration No. (Attorney/Agent)	38,533	Signature	<i>[Signature]</i>	Telephone	509-624-4276			Date	11/25/03
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																																																																																													
105	100	205	65	Surcharge - late filing fee or cash	0.00																																																																																																																																																																																																																																											
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	0.00																																																																																																																																																																																																																																											
129	130	129	130	Non-English specification	0.00																																																																																																																																																																																																																																											
147	2,520	147	2,520	For filing a request for examination	0.00																																																																																																																																																																																																																																											
112	920	112	920	Requesting publication of OI prior to examination	0.00																																																																																																																																																																																																																																											
113	1,840	113	1,840	Requesting publication of AIR after Examiner action	0.00																																																																																																																																																																																																																																											
115	110	215	55	Extension for reply within first month	0.00																																																																																																																																																																																																																																											
116	300	210	190	Extension for reply within second month	0.00																																																																																																																																																																																																																																											
117	570	217	435	Extension for reply within third month	0.00																																																																																																																																																																																																																																											
118	1,150	218	860	Extension for reply within fourth month	0.00																																																																																																																																																																																																																																											
128	1,850	228	925	Extension for reply within fifth month	0.00																																																																																																																																																																																																																																											
110	203	210	150	Notice of Appeal	0.00																																																																																																																																																																																																																																											
120	300	220	190	Filing a brief in support of an appeal	0.00																																																																																																																																																																																																																																											
121	285	221	130	Request for oral hearing	0.00																																																																																																																																																																																																																																											
123	1,510	123	1,510	Petition to institute a public use proceeding	0.00																																																																																																																																																																																																																																											
140	110	240	65	Petition to revive - unintentional	0.00																																																																																																																																																																																																																																											
141	1,210	241	605	Petition to revive - unintentional	0.00																																																																																																																																																																																																																																											
142	1,210	242	605	Utility patent fee (or release)	0.00																																																																																																																																																																																																																																											
113	130	213	215	Design issue fee	0.00																																																																																																																																																																																																																																											
144	540	244	290	Plant issue fee	0.00																																																																																																																																																																																																																																											
122	110	222	150	Petitions to the Commissioner	0																																																																																																																																																																																																																																											
125	50	125	50	Revisions related to provisional applications	0.00																																																																																																																																																																																																																																											
125	240	125	240	Submission of Information Disclosure Sheet	0.00																																																																																																																																																																																																																																											
581	40	581	40	Recording each patent assignment per property (times number of properties)	40.00																																																																																																																																																																																																																																											
148	650	248	345	Filing a submission after final rejection (37 CFR § 1.129(a))	0.00																																																																																																																																																																																																																																											
149	650	249	345	For each additional invention to be examined (37 CFR § 1.129(b))	0.00																																																																																																																																																																																																																																											
Other fee (specify):				0.00																																																																																																																																																																																																																																												
Other fee (specify):				0.00																																																																																																																																																																																																																																												
<b>SUBTOTAL (1)</b>				<b>(9) 770.00</b>																																																																																																																																																																																																																																												
FEE CALCULATION																																																																																																																																																																																																																																																
<b>1. BASIC FILING FEE</b>																																																																																																																																																																																																																																																
Large Entity Small Entity Fee Code (S) Code (S)	Fee Description Fee Paid																																																																																																																																																																																																																																															
101 600 201 345	Utility filing fee	770.00																																																																																																																																																																																																																																														
106 210 206 155	Design filing fee																																																																																																																																																																																																																																															
107 450 207 240	Plant filing fee																																																																																																																																																																																																																																															
108 600 208 345	Provisional filing fee																																																																																																																																																																																																																																															
114 150 214 75	Provisional filing fee																																																																																																																																																																																																																																															
<b>SUBTOTAL (1)</b>		<b>(9) 770.00</b>																																																																																																																																																																																																																																														
<b>2. EXTRA CLAIM FEES</b>																																																																																																																																																																																																																																																
Total Claims: <b>19</b> Independent Claims: <b>1</b> Multiple Dependent: <b>0</b>	Extra Claims Fee from below: <b>13</b> Extra Claims Fee from above: <b>0</b> Multiple Dependent Fee: <b>0</b>																																																																																																																																																																																																																																															
**For number previously paid, if greater: For Petitions, see below Large Entity Small Entity Fee Code (S) Fee Code (S) Fee Description																																																																																																																																																																																																																																																
100 10 200 5	Claims in excess of 20																																																																																																																																																																																																																																															
102 78 202 30	Independent claims in excess of 3																																																																																																																																																																																																																																															
104 260 204 150	Multiple dependent claim, if not paid																																																																																																																																																																																																																																															
109 14 209 35	Multiple independent claims over original patent																																																																																																																																																																																																																																															
110 10 210 5	Reissue claims in excess of 27 and over original patent																																																																																																																																																																																																																																															
<b>SUBTOTAL (2)</b>		<b>(8) 342.00</b>																																																																																																																																																																																																																																														
SUBMITTED BY		Complete If Applicable																																																																																																																																																																																																																																														
Name (Print/Type)	David G. Latwesen, Ph.D.	Registration No. (Attorney/Agent)	38,533																																																																																																																																																																																																																																													
Signature	<i>[Signature]</i>	Telephone	509-624-4276																																																																																																																																																																																																																																													
		Date	11/25/03																																																																																																																																																																																																																																													

**WARNING.**

Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO 2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.